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In the claims:

Please amend the claims as follows:

Claims 1-8. (Canceled)

(Previously presented) An isolated human antibody, or antigen-binding portion thereof, that binds to human IL-12 and dissociates from human IL-12 with a Kd of 1×10^{-10} M or less and a k_{off} rate constant of 1×10^{-3} s⁻¹ or less, as determined by surface plasmon resonance.

The isolated human antibody of claim, or an (Previously presented) antigen-binding portion thereof, which dissociates from human IL-12 with a koff rate constant of 1 x 10-4 s⁻¹ or less.

The isolated human antibody of claim 9, or an (Previously presented) antigen-binding portion thereof, which dissociates from human IL-12 with a koff rate constant of 1 x 10⁻⁵s⁻¹ or less.

- 12. The neutralizing antibody of claim 143, or an (Previously presented) antigen-binding portion thereof, which inhibits phytohemagglurinin blast proliferation in an in vitro PHA assay with an IC₅₀ of 1 x 10⁻⁹ M or less.
- 9 x5. (Previously presented) The neutralizing antibody of claim 142, or an antigen-binding portion thereof, which inhibits phytohemagglutinin blast proliferation in an in vitro PHA assay with an IC₅₀ of 1 x 10⁻¹⁰M or less.
- (Previously presented) The neutralizing antibody of claim 143, or an antigen-binding portion thereof, which inhibits phytohemagglutinin blast proliferation in an in vitro PHA assay with an IC₅₀ of 1 x 10⁻¹¹-M or less.

Claims 15-40. (Canceled)

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(Original) An isolated human antibody, or an antigen-binding portion thereof, which

- a) inhibits phytohemagglutinin blast proliferation in an in vitro PHA assay with an IC₅₀ of 1 x 10⁻⁹M or less;
- b) has a heavy chain CDR3 comprising the amino acid sequence of SEQ ID NO: 25; and
- c) has a light chain CDR3 comprising the amino acid sequence of SEQ ID NO: 26.
- (Original) The isolated human antibody, or an antigen-binding portion thereof, of claim At which further has a heavy chain CDR2 comprising the amino acid sequence of SEQ ID NO: 27; and a light chain CDR2 comprising the amino acid sequence of SEQ ID NO: 28.
- (Original) \ The isolated human antibody, or an antigen-binding portion thereof, of claim 47 which further has a heavy chain CDR1 comprising the amino acid sequence of SEQ ID NO: 29; and a light chain CDR1 comprising the amino acid sequence of SEQ ID NO: 30.
- (Original) An isolated human antibody, or an antigen-binding portion thereof, having a heavy chain variable region comprising the amino acid sequence of SEQ ID NO: 31, and a light chain variable region comprising the amino acid sequence of SEQ ID NO: 32.
- (Original) The isolated human antibody of claim 44, comprising a heavy chain constant region selected from the group consisting of IgG1, IgG2, IgG3, IgG4, IgM, IgA and IgE constant regions.
- 33 46. (Original) The isolated human antibody of claim 45, wherein the antibody heavy chain constant region is IgG1.

24. (Original) The isolated human antibody of claim 44, which is a Fab fragment.

(Original) The isolated human antibody of claim 44, which is a F(ab')2 fragment.

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The isolated human antibody of claim 44, which is a single chain 49. (Original) Fy fragment.

Claims 50-87. (Canceled)

A pharmaceutical composition comprising the (Previously presented) antibody or an antigen binding portion thereof, of claim-9, 41, 44, 151, 153, 164, 167, 168, 172, 183, or 184, and a pharmaceutically acceptable carrier. 27 29 41 'UU US uy'50 S)
Claims 89-90 (Canceled)

The pharmaceurical composition of claim 28, (Previously presented) further comprising an additional therapeutic agent selected from the group consisting of budenoside, corticosteroids, cyclosporin, sulfasalazine, aminosalicylates, 6mercaptopurine, azathioprine, metronidazole, mesalamine, olsalazine, balsalazide, antioxidants, antibodies to IL-1 receptor, anti-IL-1 \$\beta\$ monoclonal antibodies, anti-IL-6 monoclonal antibodies, pyridinyl-imidazole compounds, anti-TNF antibodies, or fragments thereof, and anti-LT antibodies.

Claims 92-141. (Canceled)

The isolated human antibody, or antigen-binding (Previously presented) portion thereof, of claim 9, which is a recombinant antibody, or antigen-binding portion thereof.

143. (Previously presented) The isolated hum to LL, wherein the antibody is a neutralizing antibody. The isolated human antibody of any one of claims 9

The neutralizing antibody of claim 143, or an 144. (Previously presented) antigen-binding-portion-thereof,-which-inhibits phytohemagglutinin blast proliferation in an in vitro phytohemagglutinin blast proliferation assay (PHA assay) with an IC50 of 1 x 10⁻⁷ M or less.

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145. (Previously presented) The neutralizing antibody of claim 143, or an antigen-binding portion thereof, which inhibits phytohemagglutinin blast proliferation in an in vitro PHA assay with an IC₅₀ of 1 x 10⁻⁸ M or less

13 146. (Previously presented) The neutralizing antibody of claim 143, or an antigen-binding portion thereof, which inhibits human IFNy production with an IC50 of 1 x 10⁻¹⁰ M or less.

147. (Previously presented) The neutralizing antibody of claim-143, or an antigen-binding portion thereof, which inhibits human IFNy production with an IC50 of 1 x 10⁻¹¹ M or less.

15 _148. (Previously presented) The neutralizing antibody of claim 143, or an antigen-binding portion thereof, which inhibits human IFNγ production with an IC₅₀ of 5 x 10⁻¹² M or less.

The isolated human antibody, or antigenbinding portion thereof, of claim 41, which inhibits phytohemagglutinin blast proliferation in an *in vitro* PHA assay with an IC₅₀ of 1 x 10⁻¹⁰ M or less.

The isolated human antibody, or antigenbinding portion thereof, of claim AT, which inhibits phytohemagglutinin blast proliferation in an *in vitro* PHA assay with an IC₅₀ of 1 x 10⁻¹¹ M or less.

2 151. (Previously presented) An isolated human antibody, or an antigen-binding portion thereof, which dissociates from human IL-12 with a K₄ of 1 x 10⁻¹⁹M or less and binds to an epitope on the p40 subunit of human IL-12.

18 AS2. (Previously presented) The isolated human antibody of claim As1, which neutralizes the activity of human IL-12.

Currently amended) A neutralizing isolated human antibody, or antigenbinding portion thereof, that binds to human IL-12 and dissociates from human IL-12 with a k_{off} rate constant of $1 \times 10^{-2} \, s^{-1} + 10^{-3} \, s^{-1}$ or less, as determined by surface plasmon resonance.

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- The neutralizing isolated human antibody of claim 153, or an antigen-binding portion thereof, which dissociates from human IL-12 with a $2.9 \, k_{\rm off}$ rate constant of $1 \times 10^{-4} \, s^{-1}$ or less.
- The neutralizing isolated human antibody of claim 153; or an antigen-binding portion thereof, which dissociates from human IL-12 with a ker rate constant of 1 x 10⁻⁵s⁻¹ or less.
- The neutralizing isolated human antibody of any one of claims 153 to 153 and 207, which inhibits phytohemagglutinin blast proliferation in an in vitro PHA assay with an R₅₀ of 1 x 10⁻⁷ M or less
- JS7. (Currently amended) The neutralizing isolated human antibody of any one of claims 153 to 155 and 207, or an antigen-binding portion thereof, which inhibits phytohemagglumnin blast proliferation in an in vitro PHA assay with an IC50 of 1 x 10.8 M or less.
 - 35 158. (Currently amended) 37 The neutralizing isolated human antibody of any one of claims 153 to 155 and 207, or an antigen-binding portion thereof, which inhibits phytohemagglutinin blast proliferation in an in vitro PHA assay with an IC50 of 1 x 10.9 M or less.
- 3). (Currently amended) 3 The neutralizing isolated human antibody of any one of claims 183 to 155 and 207, or an antigen-binding portion thereof, which inhibits phytohemagglutinin blast proliferation in an in vitro PHA assay with an IC50 of 1 x 10⁻¹⁰ M or less.
- 3) 460. (Currently amended) 3 2. The neutralizing isolated human antibody of any one of claims 153 to 155 and 207, or an antigen-binding portion thereof, which inhibits phytohemagglutinin blast proliferation in an in vitro PHA assay with an 1C50 of 1 x 10⁻¹¹ M or less.

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- (Currently amended) 3 The neutralizing isolated human antibody of any one of claims 153 to 155 and 287, or an antigen-binding portion thereof, which inhibits human IFNy production with an IC50 of 1 x 10-10 M or less.
- 3 \(\sum_162\) (Currently amended) \(\tau\) The neutralizing isolated human antibody of any one of claims 153 to 155 and 207, or an antigen-binding portion thereof, which inhibits human IFNy production with an IC50 of 1 x 10-11 M or less.
 - (Currently amended) 3 The neutralizing isolated human antibody of any one of claims 153 to 155 and 2017, or an antigen-binding portion thereof, which inhibits human IFNy production with an ICso of 5 x 10-12 M or less.
 - An isolated human antibody, or an antigen-binding 4 \ 164. (Previously presented) portion thereof, which
 - dissociates from human 1L-12 with a k_{off} rate constant of 1 x 10⁻³ s⁻¹ or less, as determined by surface plasmon resonance;
 - has a heavy chain CDR3 comprising the amino acid sequence of SEQ ID b) NO: 25: and
 - has a light chain CDR3 comprising the amino acid sequence of SEQ ID c) NO: 26. u١
- The isolated human antibody of claim 164, or an y 2 165. (Previously presented) antigen-binding portion thereof, which dissociates from human IL-12 with a koff rate constant of 1 x 10-4 s-1 or less.
 - (Previously presented) The isolated human antibody of claim 164, or an antigen-binding portion thereof, which dissociates from human IL-12 with a koff rate constant of 1 x 10-5 s-1 or less.
 - 167. (Previously presented) An isolated human antibody, or antigen-binding portion thereof, that binds to human IL-12 and comprises:
 - a light chain CDR3 domain comprising the amino acid sequence of SEQ ID NO:

26; and

a heavy chain CDR3 domain comprising the amino acid sequence of SEQ ID NO:

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(Previously presented) An isolated human antibody, or an antigen-binding portion thereof, with a light chain variable region (LCVR) having a CDR3 domain comprising the amino acid sequence of SEQ ID NO: 26, and with a heavy chain variable region (HCVR) having a CDR3 domain comprising the amino acid sequence of SEQ ID NO: 25.

(Previously presented) The isolated human antibody, or an antigen-binding portion thereof, of claim 168, wherein the LCVR further has a CDR2 domain comprising the amino acid sequence of SEQ ID NO: 28 and the HCVR further has a CDR2 domain comprising the amino acid sequence of SEQ ID NO: 27.

(Previously presented) The isolated human antibody, or an antigen-binding portion thereof, of claim 169; wherein the LCVR further has CDR1 domain comprising the amino acid sequence of SEQ ID NO: 30 and the HCVR has a CDR1 domain comprising the amino acid sequence of SEQ ID NO: 29.

(Previously presented) A pharmaceutical composition comprising an antibody or an antigen binding portion thereof, and a pharmaceutically acceptable carrier, wherein the antibody comprises:

a light chain CDR3 domain comprising the amino acid sequence of SEQ ID NO: 26; and

a heavy chain CDR3 domain comprising the amino acid sequence of SEQ ID NO: 25.

An isolated human antibody that binds human IL-12 and is the antibody J695, or an antigen binding portion thereof.

(Previously presented) WA pharmaceutical composition comprising the isolated human antibody of claim 172 and a pharmaceutically acceptable carrier.

Claims 174-182. (Canceled)

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183. (Previously presented) An isolated human antibody, or antigen-binding portion thereof, that binds to human IL-12 and dissociates from human IL-12 with a K₄ of 1.34 x 10⁻¹⁰ M or less, and neutralizes human IL-12.

- (Previously presented) The isolated human antibody of claim 183, or an antigen-binding portion thereof, which dissociates from human IL-12 with a K₀ of 9.74 x 10⁻¹¹ M or less.
- 185. (Previously presented) The isolated human antibody, or antigen-binding portion thereof, of claims 183 or 184, which is a recombinant antibody, or antigen-binding portion thereof.
- The isolated human antibody of claim 185, or an antigen-binding portion thereof, which inhibits phytohemagglutinin blast proliferation in an in vitro PHA assay with an IC₅₀ of 1 x 10⁻⁷ M or less.
- S (Previously presented) The isolated human antibody of claim 185, or an antigen-binding portion thereof, which inhibits phytohemagglutinin blast proliferation in an in vitro PHA assay with an IC₅₀ of 1 x 10⁻⁸ M or less
- 188. (Previously presented) The isolated human antibody of claim 185, or an antigen-binding portion thereof, which inhibits phytohemagglutinin blast proliferation in an in vitro PHA assay with an IC₅₀ of 1 x 10⁻⁹ M or less.
- (Previously presented) The isolated human antibody of claim 185, or an antigen-binding portion thereof, which inhibits phytohemagglutinin blast proliferation in an in vitro PHA assay with an IC₅₀ of 1 x 10⁻¹⁰M or less.
- 5 7 190. (Previously presented) The isolated human antibody of claim 185, or an antigen-binding portion thereof, which inhibits phytohemagglutinin blast proliferation in an in vitro PHA assay with an IC₅₀ of 1 x 10⁻¹¹M or less.

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.52 58 The isolated human antibody of claim 185, or an 191. (Previously presented) antigen-binding portion thereof, which inhibits human IFNy production with an IC50 of 1 x 10⁻¹⁰ M or less. 52

59 192. (Previously presented) The isolated human antibody of claim 185, or an antigen-binding portion thereof, which inhibits human IFNy production with an IC50 of 1 \times 10⁻¹¹ M or less. 52

The isolated human antibody of claim 185, or an (Previously presented) antigen-binding portion thereof, which inhibits human IFNy production with an IC50 of 5 $\times 10^{-12}$ M or less. \$2

The isolated human antibody of claim 185, or an 61 (Previously presented) 194. antigen-binding portion thereof, which inhibits IL-12 binding to its receptor in an IL-12 receptor binding assay (RBA) with an IC50 of 1 x 10 M or less.

6 195. (Previously presented) The isolated human antibody of claim 185, or an antigen-binding portion thereof, which inhibits IL-12 binding to its receptor in an IL-12 receptor binding assay (RBA) with an $1C_{50}$ of 1×10^{-10} M or less

6 3 496. (Previously presented) The isolated human antibody of claim-185, or an antigen-binding portion thereof, which inhibits IL-12 binding to its receptor in an IL-12 receptor binding assay (RBA) with an IC50 of 1 x 10-11 M or less.

(Previously presented) The pharmaceutical composition of claim 88 further comprising an additional therapeutic agent selected from the group consisting of anti-IL-1 antibodies, anti-IL-2 antibodies, anti-IL-6 antibodies, anti-IL-7 antibodies, anti-IL-8 antibodies, anti- IL-15 antibodies, anti- IL-16 antibodies, anti-IL-18 antibodies, anti-EMAP-II antibodies, anti-GM-CSF antibodies, anti-FGF antibodies, anti-PDGF antibodies, anti-CD2 antibodies, anti-CD3 antibodies, anti-CD4 antibodies, anti-CD8 antibodies, anti-CD25 antibodies, anti-CD28 antibodies, anti-CD30 antibodies, anti-CD40 antibodies, anti-CD45 antibodies, anti-CD69 antibodies, anti-CD80 (B7:1) antibodies, anti-CD86 (B7.2) antibodies, and anti-CD90 antibodies.

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The pharmaceutical composition of claim 88, (Previously presented) further comprising an additional therapeutic agent selected from the group consisting of methotrexate, FK506, rapamycin, mycophenolate mofetil, leflunomide, non-steroidal anti-inflammatory drugs (NSAlDs), ibuprofen, prednisolone, 6-mercaptopurines, soluble p55 TNF receptor, soluble p75 TNF receptor, sIL-1RI, sIL-1RII, sIL-6R, sIL-13, antiinflammatory cytokines, IL-4, IL-10, IL-11, IL-13, TGF\u03b3, Vx740, anti-P7s, p-selectin glycoprotein ligand (PSGL), p75TNFRIgG (EnbrelTM), p55TNFRIgG (LenerceptTM). pyridinyl-imidazole compounds, anti-gp39 antibodies, anti-CD40L antibodies, methotrexate, cytokine suppressive anti-inflammatory drugs (CSAIDs), leflunomide, MP, mesalazine, chloroquinine/hydroxychloroquine, pencillamine, aurothiomalate, cochicine,

6 8 199. The pharmaceutical composition of claim 28, (Previously presented) further comprising an additional therapeutic agent selected from the group consisting of anti-IRAK antibodies, anti-NIK antibodies, anti-IKK antibodies, anti-p38 antibodies, D2E7, cA2 (RemicadeTM), CDP 571, 5-aminosalicylic acid, TNFR-Ig constructs, dexamethasone, aminosalicylic acid, IL-1ra, methylprednisolone, cyclophosphamide, methorrexate, 4-aminopyridine, tizanidine, interferon-βla (AvonexTM), interferon-βlb (Betaseron™), Copolymer 1 (Cop-1; Copaxone™), hyperbaric oxygen, clabribine, anti-EMAP-II antibodies, IFNB1a, IFNB1b, and IL-1.

salbutamol, terbutaline, salmeteral, theophylline, aminophylline, cromoglycate,

nedocromil, ketotifen, ipratropium, and oxitropium.

((Previously presented) A pharmaceutical composition comprising the antibody or an antigen binding portion thereof of claim 143, and a pharmaceutically acceptable carrier.

The pharmaceutical composition of claim 200, (Previously presented) further comprising an additional therapeutic agent selected from the group consisting of budenoside, corticosteroids, cyclosporin, sulfasalazine, aminosalicylates. 6mercapropurine, azathioprine, metronidazole, mesalamine, olsalazine, balsalazide, antioxidants, antibodies to IL-1 receptor, anti-IL-1β monoclonal antibodies, anti-IL-6

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monoclonal antibodies, pyridinyl-imidazole compounds, anti-TNF antibodies, or fragments thereof, and anti-LT antibodies.

202. (Previously presented) The pharmaceutical composition of claim 206, further comprising an additional therapeutic agent selected from the group consisting of anti-1L-1 antibodies, anti-1L-2 antibodies, anti-1L-6 antibodies, anti-1L-7 antibodies, anti-1L-8 antibodies, anti-1L-15 antibodies, anti-1L-16 antibodies, anti-1L-18 antibodies, anti-EMAP-II antibodies, anti-GM-CSF antibodies, anti-FGF antibodies, anti-PDGF antibodies, anti-CD2 antibodies, anti-CD3 antibodies, anti-CD4 antibodies, anti-CD8 antibodies, anti-CD25 antibodies, anti-CD26 antibodies, anti-CD30 antibodies, anti-CD40 antibodies, anti-CD45 antibodies, anti-CD69 antibodies, anti-CD80 (B7.1) antibodies, anti-CD86 (B7.2) antibodies, and anti-CD90 antibodies.

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(Previously presented) The pharmaceutical composition of claim 200, further comprising an additional therapeutic agent selected from the group consisting of methotrexate, FK506, rapamycin, mycophenolate mofetil, letlunomide, non-steroidal anti-inflammatory drugs (NSAIDs), ibuprofen, prednisolone, 6-mercaptopurines, soluble p55 TNF receptor, soluble p75 TNF receptor, sIL-1RI, sIL-1RII, sIL-1RII, sIL-1RI, sIL-1RI, sIL-1RI, sIL-1RI, sIL-1RII, s

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204. (Previously presented) The pharmaceutical composition of claim 200, further comprising an additional therapeutic agent selected from the group consisting of anti-IRAK antibodies, anti-NIK antibodies, anti-IKK antibodies, anti-p38 antibodies, D2E7, cA2 (Remicade TM), CDP 571, 5-aminosalicylic acid, TNFR-Ig constructs, dexamethasone, aminosalicylic acid, IL-1ra, methylprednisolone, cyclophosphamide, methotrexate, 4-aminopyridine, tizanidine, interferon-β1a (Avonex TM), interferon-β1b

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(BetaseronTM), Copolymer 1 (Cop-1; CopaxoneTM), hyperbaric oxygen, clabribine, anti-EMAP-II antibodies, IFNβ1a, IFNβ1b, and IL-1.

205. (Previously presented) The isolated human antibody of claims, or an antigen-binding portion thereof, that binds to human IL-12 and dissociates from human IL-12 with a K_d of 1.34 x 10⁻¹⁰ M or less.

206 (Previously presented) The isolated human antibody of claim 9, or an antigen-binding portion thereof, that binds to human IL-12 and dissociates from human IL-12 with a K₄ of 9.74 x 10⁻¹¹ M or less.

20%. (New) The neutralizing isolated human antibody of claim. 153, or an antigenbinding portion thereof, which dissociates from human IL-12 with a koff rate constant of 1 x 10⁻³ s⁻¹ or less.